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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/075,640	02/13/2002	Michael Nuttall	500803.02	9841
	7590 06/03/2004		EXAM	INER
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DORSEY &	WHITNEY LLP			
Suite 3400			ART UNIT	PAPER NUMBER
1420 Fifth A	Avenue	*	2818	
Seattle, WA	98101		DATE MAILED: 06/03/200	4
DORSEY & WHITNEY LLP			ART UNIT 2818	PAPER NUMBER

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summant	10/075,640	NUTTALL ET AL.			
Office Action Summary	Examin r	Art Unit			
<u> </u>	DAVID VU	2818			
The MAILING DATE of this communication app ars on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status					
1) Responsive to communication(s) filed on 15 M	<u>larch 2004</u> .				
2a)⊠ This action is <b>FINAL</b> . 2b)□ Thi	s action is non-final.	e e			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims					
4)⊠ Claim(s) <u>38 and 45-61</u> is/are pending in the ap	plication.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>38 and 45-61</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.  Application Papers					
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>13 February 2002</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:					
1. Certified copies of the priority documents	have been received.				
2. Certified copies of the priority documents	have been received in Application	on No			
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 09/08/03 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:					
S. Patent and Trademark Office					

Application/Control Number: 10/075,640

Art Unit: 2818

#### DETAILED ACTION

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 38 and 52 are rejected under 35 U. S. C. 102(b) as being anticipated by Chuang et al. (US 6,001,709).

Regarding claims 38 and 52, Chuang et al., in related text (Col. 3, Lines 19-64) and figures (Figs. 2A-2C) disclose an in-process semiconductor structure, comprising: a substrate 20; a plurality of active regions; a plurality of isolation regions 25 adjacent the active regions, each isolation region 25 being positioned between adjacent active regions to isolate adjacent active regions and no layers being formed on the isolation regions; and at least one selectively formed contact region on each active region, each selectively formed contact region being isolated from contacts on adjacent active regions (Fig. 2C).

Art Unit: 2818

2. Claims 38 and 45-59 are rejected under 35 U. S. C. 102(e) as being anticipated by White, Jr. et al. (US 6,130,102).

Regarding claims 38 and 45-59, White, Jr. et al., in related text (Col. 3, Lines 24-67) and figure (Fig. 2) disclose an in-process semiconductor structure, comprising: a substrate 12 (Col. 3, Lines 26-31); a plurality of active regions (Col. 3, Lines 44-45); a plurality of isolation regions adjacent the active regions (Col. 3, Lines 34-43), each isolation region being positioned between adjacent active regions to isolate adjacent active regions and no layers being formed on the isolation regions; and at least one selectively formed contact region on each active region, each selectively formed contact region being isolated from contacts on adjacent active regions.

Since White, Jr. et'al. was filed on November 3, 1997, it could be prior art under 35 U. S. C. 102(e).

3. Regarding claims 38, 52 and 60-61, the limitation "having a first surface exposed to electromagnetic radiation during formation to a greater extent than a second surface of the contact", is taken to be a product by process limitation and consider non-limitation. In a product-by-process claim, it is the patentability of the claimed product and not of the recited process steps which must be established. Therefore, when the prior art discloses a product which reasonably appears to be identical with or only slightly different than the product claimed in a product-by process claim, a rejection based on sections 102 or 103 is fair. The Patent Office is not equipped to manufacture products by a myriad of processes put before it and then obtain prior art product and make physical comparisons therewith. In re Brown, 173 USPQ 685 (CCPA 1972). Also, a product by process claim directed to

Application/Control Number: 10/075,640

Art Unit: 2818

the product per se, no matter how actually made, In re Hirao, 190 USPQ I S at 17 (footnote 3). See In re Fessman, 180 USPQ 324, 326 (CCPA 1974); In re Marosi et al., 218 USPQ 289, 292 (Fed. Cir. 1983); and particularly In re Thorpe, 227 USPQ 964, 966 (Fed. Cir. 1985), all of which make it clear that it is the patentability of the final structure of the product "gleaned" from the process steps, which must be determined in a " product by process" claim, and not the patentability of the process. See also MPEP 2113. Moreover, an old and obvious product produced by a new method is not a patentable product, whether claimed in "product by process" claims or not.

Note that a "product by process" claim is directed to the product per se, no matter how actually made, In re Hirao, 190 USPQ 15 at 17 (footnote 3). See also In re Brown, 173 USPQ 685; In re Luck, 177 USPQ 523; In re Fessmann, 180 USPQ 324; In re Avery, 186 USPQ 161; In re Wertheim, 191 USPQ 90 (209 USPQ 554 does not deal with this issue); In re Marosi et al, 218 USPQ 289; and particularly In re Thorpe, 227 USPQ 964, all of which make it clear that it is the patentability of the final product per se which must be determined in a "product by process" claim, and not the patentability of the process, and that an old or obvious product produced by a new method is not patentable as a product, whether claimed in "product by process" claims or not. Note that applicant has the burden of proof in such cases, as the above caselaw makes clear.

## Response to Arguments

4. Applicant's arguments filed on 03/15/04 have been fully considered but they are not persuasive.

Application/Control Number: 10/075,640

Art Unit: 2818

It is argued, at page 5 of Applicant Remark, 03/15/04, that "... a specific limitation in a claim cannot be ignored under the assumption that the particular limitation is a "product-by-process limitation" because there is no authority to do so'.

With regard to applicant's argument concerning claims 38, 52, 57, 60 and 61, the Examiner maintains that a "product by process" claim is directed to the product per se, no matter how actually made. See In re Thorpe et al., 227 USPQ 964 (CAFC, 1985) and the related case law cited therein which make it clear that it is the final product per se which must be determined in a "product by process" claim, and not the patentability of the process, and that, as here, an old or obvious product produced by a new method is not patentable as a product, whether claimed in "product by process" claims or not. As stated in Thorpe, even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. *In re Brown*, 459 F.2d 531, 535, 173 USPQ 685, 688 (CCPA 1972); In re Pilkington, 411 F.2d 1345, 1348, 162 USPQ 145, 147 (CCPA 1969); Buono v. Yankee Maid Dress Corp., 77 F.2d 274, 279, 26 USPQ 57, 61 (2d. Cir. 1935).

Moreover, the limitations "exposed to electromagnetic radiation during formation..." (claims 38 and 52); "selective epitaxial growth silicon" (claim 57); "electromagnetic radiation comprises collimated electromagnetic radiation" (claims 60 and 61), does not structurally distinguish the claim over the prior art.

Therefore, the rejection of claims 38 and 45-61, as stated in the previous Office Action is maintained.

Art Unit: 2818

#### Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Vu whose telephone number is 571-272-1798. The examiner can normally be reached on Monday-Friday 8:00am-5:30 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

DV

David Vu.

David Nelms
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